

**GVIC FISHSCREEN/PASSAGE
OPERATION AND MAINTENANCE REPORT**

COLORADO RIVER RECOVERY PROGRAM
FY 2023 ANNUAL PROJECT REPORT

RECOVERY PROGRAM
PROJECT NUMBER C-29

I. Project Title: Operation and Maintenance of the Fish Screen and Fish Passage Facility at the Grand Valley Irrigation Company Diversion in Palisade Colorado.

II. Bureau of Reclamation Agreement Number: 01-WC-40-7050
Project/Grant Period: Start date: 04/01/2002
End date: Ongoing
Reporting period end date: 09/30/2023
Is this the final report? Yes No

III. Prepared by: Charles D. Guenther
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IV. Project Summary:

The Grand Valley Irrigation Company (GVIC) diversion is located on the Colorado River (River) near Palisade Colorado and diverts water in the GVIC Mainline Canal. A fish passage structure was constructed in the River on the downstream side of and adjacent to GVIC's diversion structure in 1998-1999 during the off water season. The fish screen was constructed in the GVIC canal below the river diversion gates in 2002. This fish passage and fish screen is owned by the Bureau of Reclamation. GVIC operates and maintains the fish screen and the fish passage through a cooperative agreement with the United States.

V. Study Schedule:

GVIC makes every effort to operate the fish screen and passage whenever diverting water into the GVIC canal from the Colorado River and adequate supply allows for GVIC's decreed diversion amount and needed fish screen by-pass pipe flows. Maintenance of the fish screen/passage is performed following the US Fish and Wildlife Service (FWS), the Bureau of Reclamation (BOR) and GVIC completing an annual inspection and submittal and approval of an Annual Work Plan by GVIC.

VI. Relationship to RIPRAP:

Colorado River – II. B.1.a. (4) Operate and maintain fish passage at GVIC
Colorado River – II.B.1.b. (3) Operate and maintain fish screen at GVIC

VII. Accomplishments of FY 2023 Tasks and Deliverables, Discussion of Initial Findings and Shortcomings:

1. High river year allowed Obermeyer Gate down for full irrigation season (Fish passage operable all 2023 year.)

The following maintenance and activities were completed on the GVIC/screen/passage

October, 2022

1. October 02, 2022 Raised screens due to brusharm travel failure
2. October 03, 2022 Marty attempt run brusharms, kept failing, no success called Mountain Peaks Controls to trouble shoot.
3. October 07, 2022 Vickie lowered screen after Mountain Peak Visit, Marty Assisted..
4. October 23, 2022 Vickie raid screens excessive storm event.
5. October 24, 2022 Marty raised additional screens to desilt behind screens.
6. October 31, 2022 GVIC shutdown for season pulled rest of screens.

November, 2022

1. November 03, 2022 James lowered Obermeyer Gate, checked compressor shed.

December, 2022

1. December 08, 2022 Nolan drained filters on Obermeyer air compressor. Charlie worked on O & M report.
2. December 14, 2022 Charlie completed and submitted O&M report.
3. December 15, 2022 Discussed with Applegate on anticipated Dam Rise work.

January 2023

1. January 26, 2023 Marty placed gravel on roads adjoining fish screens, GVIC equipment and trucks.

February 2023

No Activity

March 2023

1. March 09, 2023 Kevin GVIC power washed screens and baffles with GVIC Jetter / washer
2. March 10, 2023 Kevin GVIC complete screens and baffles power wash with GVIC equipment, lowered screens and baffles.

April 2023

1. April 07, 2023 Phil / Charlie GVIC adjust baffles post washing on fishscreens, prepare for Water on.
2. April 10, 2023 GVIC turn on season start, fishscreens operable, Obermeyer down, fish passage operable.
3. April 13, 2023 Vickie raised screens, brusharms failed; debris increasing in river.
4. April 18, 2023 GVIC meet with BOR, Applegate on phone.
5. April 25, 2023 Vickie lowered screens, fishscreen operable.
6. April 26, 2023 Phil, Charlie and James GVIC meet with BOR and FWS on Dam Rise And fishscreen retro fit at BOR office.
7. April 27, 2023 Vickie raised screens, excessive river debris.
8. April 29, 2023 Vickie attempted lower screens, then pull ½ hour later, excessive river debris.

May 2023

No Activity

June 2023

No activity

July 2023

1. July 01, 2023 Vickie Lowered screens, Fish Operable,(was inoperable for 65 days).

August 2023

1. August 02, 2023 Air Compressor failed called ACS to service. No down time.
2. August 24, 2023 Vickie raised screens excessive storms in Colorado River Basin
3. August 29, 2023 Vickie, Marty screens back down 10:00 am.
4. August 31, 2023 lighting storm downed power,backup generator failed, screens raised for 1.5 hours.

September 2023

1. September 06, 2023 Charlie hired EMTECH to service backup generator.
2. September 13, 2023 Marty attempt backup generator repairs, no digital displays suspect batteries.
3. September 15, 2023 Vickie raised screens, excessive debris 10:30 pm.
4. September 19, 2023 Marty & Vickie screens down , river cleared up.

October 2023

1. October 30, 2023 GVIC turn off.

END 2023 Operating Season

VIII.

The fish screen was operated during the following periods: Not based on Fiscal Year

FISHSCREEN OPERATIONS – 2023 On-Off

Lowered On Date/Time	Raised Off Date/Time	Operable Days On	Inoperable Days Off	Shutdown Reason
04/10/23	04/13/23	3	12	Brusharms failed, river debris increasing
04/25/22	04/27/22	2	65	Excessive debris, Brusharms failed Excessive runoff, high river year
07/01/23	08/24/23	53	5	Excessive river debris, storms in Basin
08/29/23	0915/23	17	4	Excessive river debris, heavy rains
09/19/23	10/30/23	41	0	End Season
TOTAL RUN	202 DAYS	116	86	
Percentages		57%	43%	
Lowered=Operable Raised=Inoperable				

IX

The fish passage was operated during the following periods: Not Based on Fiscal Year

FISH PASSAGE					
			Inoperable	Operable	
			Days	Days	
OBERMEYER OPERATIONS - 2023	Gate Raised	Gate Lowered	Raised	Lowered	Reason
Gate Lowered is					
Normal Position					
Fish Passage Operable					
GVIC Irrigation Start		04/10/23		202	Adequate flow in river, water in Canal
TOTAL	202 Days	2023	0	202	
Percentage			0%	100%	

Lowered=Operable
Raised=Inoperable

X. Expenditures FY 2023: Fishscreen/Passage
Funds requested/budgeted for FY23 N/A

Funds Expended FY23 \$26,824.49

Fishscreen/Passage

Total fiscal period October 1, 2022 – September 30, 2023

Break Down of Expenses

Administration	<u>\$ 1,139.50</u>
Labor Screens -	<u>\$ 7,153.79</u>
Electrical Screens -	<u>\$14,166.51</u>
Phone Screens -	<u>\$ 1,054.09</u>
Material Screens -	<u>\$ 2,343.61</u>
Equipment Screens -	<u>\$ 837.50</u>

Labor Passage -	<u>\$ 0</u>
Electrical Passage -	<u>\$ 129.49</u>
Material Passage -	<u>\$ 0.00</u>
Equipment Passage -	<u>\$ 0.00</u>

TOTAL FY23 \$26,824.49

Notes:

1. Section VII. Accomplishments includes October 2023 FY24 activity however is part of 2023 water
2. Section VIII & IX Operations; include October 2023 for an understandable 2023 water season
Operations Report


XI. Recommendations:

1. Continue coordination on replacing wedge wire screens with travelling screens. engineering, operations, installing, etc
2. Video camera by-pass pipeline, have had no internal inspection on by-pass pipe since 2002.
3. Place concrete raise on diversion to allow screens to perform during lower water in river through assistance from Applegate Group.

Non GVIC fish screen/passage recommendation:

New Colorado River gauging station at end of 15 mile reach upstream of the confluence of the Gunnison River. To reflect return flows from the Grand Valley within the 15 mile reach.

X. Signed:



Charles D. Guenther
Assistant Superintendent

12/05/2023
Date